

**Minutes of the Carlisle Board of Health
July 22, 2008**

Present: Board Members Jeffrey Brem (Chairman), Bill Risso, Michael Holland, Leslie Cahill; absent Chris Deignan; also present Linda Fantasia (Agent), Rob Frado (TCG), Helen Lyons (*Carlisle Mosquito*)

The meeting was called to order at 7:30 p.m. at the town hall.

ADMINISTRATIVE REPORTS

24 Bingham Road – On 6/25/08, Ralph Metivier reinspected the well casing. The stone was in place and gasket will be installed. Since the land slopes away and down from the well, he is not worried about infiltration. The as-built was submitted. The Board agreed no further action was required.

103 Meadowbrook Road – The Building Inspector would like Board's consultant to inspect removal of the sewer line. The work has not yet been done.

Coventry Woods Wells – Ralph Metivier inspected the caps. The five public wells are secured with caps that are bolted. They are not locked. The irrigation well only has a tin seal. The Board agreed that all six wells should be secured with locking caps. Fantasia will notify the owner.

Senior Tax Volunteer – Judy Willard will be working three hours per week in the office.

FY08 Year End Report – A balance of \$1077 was returned to the General Fund.

Generator – the deadline to invoice the work is 8/1/08. Risso said two trenches were dug for gas and electric. The Building Commissioner was concerned about the location because the gas and electric lines would cross. Risso, Selectman Carpenito, and John Luther, Building Inspector, met at the site to determine a new location. There will be some additional expense for the new location. The Fire Dept. wants to review the plan.

40B Working Group – a revised draft was emailed to Board members. The 40B Group has decided to put further action on hold until after the Planning Board's consultant has submitted his recommendations.

USGS Project – The USGS and MA DEP are preparing a study of arsenic and uranium in bedrock wells in eastern Massachusetts. This is a follow up to the work done by DEP last summer to locate all the private wells in Carlisle. The project involves voluntary bio-monitoring. Carlisle would be a good candidate for the study because of the number of private wells and local geology. The Board agreed that it would be glad to participate and provide any additional information.

Kimball's Ice Cream – The contaminated product was embargoed and destroyed. The operation will continue to be monitored by the Westford Health Inspector, Rae Dick. If there are any more problems, she will notify Carlisle.

Mass Casualty Drill – Carlisle MRC has been invited to participate in Concord's Shelter Drill, tentatively scheduled for 11/15/08. The Board asked to have the Selectmen informed as the details are planned. They may be interested in doing an exercise in Carlisle.

Rabies Exposure – A Concord Street resident who may have been bitten asked to have the bat tested. The State Lab was not able to test because of the condition. The resident has been advised to check with his medical provider.

Citizens Corp Program (CCP) – the Medical Reserve Corps a CCP program and eligible to apply for the equipment grant. The Board agreed to ask for a trailer to store and transport emergency preparedness equipment.

Community Capital Program – The town needs to file an annual survey showing how it meets the goals of smart growth including sustainable and low impact development. Points are awarded based on these activities and added to municipal grant applications. Carlisle's score is only 33 out of 100 mainly because of the lack of affordable housing. Elizabeth Barnett is preparing this year's survey. The Board of Health will be applying for State Revolving Funds, which is an eligible program.

BILLS – It was moved (Risso) and seconded (Cahill) to approve the bills as presented. Motion passed 3-0.

180 PROSPECT STREET – Composting / Grey Water System. Present for the meeting were Joe Ducharme of Clivus New England and Dave Hazlitt from Stamski & McNary Inc.

Hazlitt gave a brief summary of the proposed design. The original replacement system was a conventional Title 5 pump system. This was replaced with a gravity fed design. The owners are now looking to install composting toilets using the leaching area for a grey water system. Hazlitt submitted a revised plan dated 7/21/08 addressing deficiencies noted in the first engineering review.

The Board reviewed the plan and had a number of questions. Brem was concerned about the reduction in leaching area size and reduction in separation to groundwater. Title 5 allows for both reductions. The Board was also concerned that the leaching area may not function if there are insufficient bacteria present. Ducharme said both grey and a small amount of black water would be discharged to the septic tank and distributed to the leaching area. Even a small amount of bacteria is sufficient for treatment. Cahill asked what would happen if the system were not in use for a long time. Ducharme said normal maintenance will be sufficient to keep the system functioning. The Board questioned how a system intended to replace a failed system is now being used for new construction. Hazlitt said the owners are replacing the existing dwelling as part of a renovation. Brem noted that this could no longer happen under the new local regulations. The parcel consists of 14 acres. The house will have four bedrooms and three bathrooms. There will be two composter units in the basement. Brem asked whether monitoring wells are required. Ducharme said there is no required monitoring. Brem suggested that the Board could install wells to do some basic sampling. There is funding available in the Water Quality Warrant Article. The owner would need to give permission. (Holland arrived)

Ducharme said that Clivus has been in business for over thirty years. Boards of Health are now encouraging the use of composters. The technology is becoming more mainstream. It is not considered alternative technology but permitted under 310 CRM 15.289. He gave a brief operational summary of the system, which uses specialized foam for flushing. Each drop of soap only needs 3 oz of water for an efficient flush. The toilets operate very similar to a standard water flush toilet. Toilets attached to a Clivus composting system have no odors. As long as the foam dispenser is kept full, there should be no problem getting the toilets to operate. The pipes are run vertical and need to be cleaned once a year and excess compost removed. Bacteria and wood shavings are sometimes added to the composter to enhance treatment.

Brem said he did not have a problem with the composter, but still had some reservations about possible impacts to groundwater. He would like to make the monitoring wells a condition of the permit. He would also like to see an annual service contract in place. Ducharme said the annual costs for servicing is about \$300/yr. Brem said this was a particularly good site to test such a system, which has not been permitted in Carlisle. This is a good opportunity for the Board to follow up on how well these systems function and what kinds of restrictions to consider.

The Board agreed on the following permit conditions: annual maintenance contract, technical review and approval of the revised plan dated 7/21/08, and that the town is allowed to install and maintain monitoring wells.

It was moved (Risso) and seconded (Cahill) to issue a sewage disposal construction permit for 180 Prospect Street, for the installation of a composting/greywater system, in accordance with plan entitled "Sewage

Disposal Plan, 180 Prospect Street, Map 1, parcel 30, prepared for Endicott, designed by Stamski & McNary Inc., dated 7/21/08" with the conditions as stated above. Motion passed 4-0-0.

235 AUTUMN LANE – Local waiver requested for setback from onsite well to septic tank. Present for the meeting was David Hazlitt, Stamski & McNary, Inc.

Hazlitt explained that the septic tank is being upgraded to accommodate an addition to the house. The tank will be sited in the same location as the existing tank, which is 56' from the onsite well. The Board reviewed the plan with no questions.

It was moved (Holland), and seconded (Risso) to approve a waiver from the Town of Carlisle Water Supply Regulations for the location of a septic tank 56' from the onsite well (100' required) at 235 Autumn Lane conditional upon engineering review of the revised plan. Motion passed 4-0-0.

80 CRANBERRY HILL LANE – addition. Present for the meeting were owners, Mr. and Mrs. Geltner, and architect Tom Hardin. The septic system was installed in 1991. It has a four bedroom capacity with a garbage grinder allowance. The owners are proposing to add a second floor storage/sewing room and extend the kitchen into an existing sunroom. There are currently nine rooms in the house. The Board agreed to discount the sewing room, which is part of the master bedroom suite and can only be accessed through the bedroom. The sunroom will be eliminated and made part of the kitchen. The Board agreed that the total number of rooms would remain nine. There would be no increase in flows over existing capacity. A letter will be sent to the Building Commissioner.

FERNS COUNTRY STORE – septic tank relocation. The tank is being relocated to accommodate an addition. The existing tank was granted a waiver on the required setback to a foundation, 6' provided, 10' required. The plan calls for installing the new tank in a different location but keeping the 6' setback. The Board agreed that a new waiver must be granted in accordance with the plan submitted. Frado noted that the revised Title 5 requires locking covers. The Board did not feel the other manhole covers were required to be upgraded.

It was moved (Risso) and seconded (Holland) to grant a waiver under local upgrade approval from 310 CMR 15.221 Minimum Setback Distances to allow the location of a new septic tank 6' from a foundation wall (10' required) in accordance with plan entitled: "Septic Tank Relocation Plan, Ferns Country Store, 8 Lowell Road, Map 22, Parcel 43, designed by Stamski & McNary Inc., dated 6/17/08". Motion passed 4-0-0.

80 MILL POND LANE – geothermal well. A well location plan was submitted showing the location of a secondary well to be used for a geothermal heat exchanger. Currently there is no permitting process. Local regulations require a separate well to avoid contamination to the household water supply. Fantasia said only one such system has been installed, but at least three other residents have expressed interest. Geothermal wells are classified as Class V Underground Injection Wells and need to be registered with the state. The Building Department is also looking into setting up a permitting process since these types of heating systems are not covered under electrical or plumbing codes.

The Board decided to do more research and invite a specialist to do a presentation. The Board can then decide whether it needs to regulate these systems. The Board approved the well location plan submitted for 80 Mill Pond Lane. The owner will be notified.

Water Conservation Project – Brem was asked by Michael Epstein of the Planning Board how the Board of Health feels about water conservation. The Board agreed that water conservation is not a problem in Carlisle. In Carlisle, water usage is a closed system where what comes out of the ground eventually goes back into the ground. This is not true of public water supplies where the water supply goes into a sewer system for disposal outside of town. Irrigation does result in some water loss through evaporation. Cahill said that Carlisle's focus is more on quality than quantity. Holland said that people with a private wells are often more conscious about water usage than someone using a public water supply. Irrigation systems are also better designed. The Board agreed that although water conservation is an important goal, there does not

appear to be a critical need to take action at this time. The Board will be reviewing its well regulations shortly. Brem will inform with Michael Epstein.

There was no further business discussed. Meeting voted to adjourn at 9:00p.m.

Respectfully submitted,

Linda Fantasia
Recorder